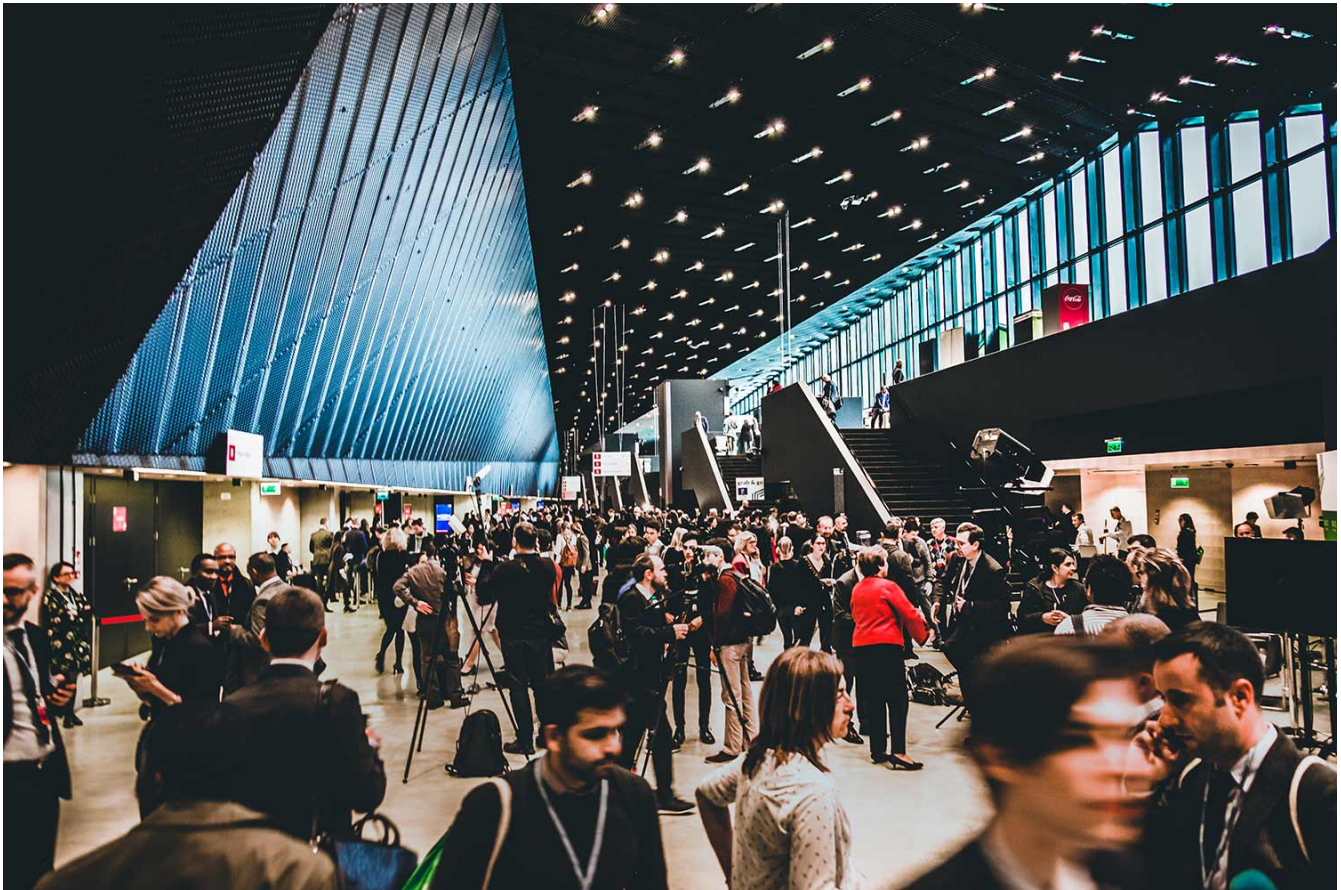


UC San Diego

UC San Diego News Center

By Brittany Hook

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More than 20,000 delegates from around the world gathered in Katowice, Poland, to attend the COP24 climate conference in December 2018. Photo: Jack Pan

Bringing Science to Global Climate Talks

Large delegation of students and researchers from Scripps Oceanography and University of California participate in COP24 climate conference in Poland

A saucer-shaped arena set in the heart of Poland's coal country seems like an unlikely place to host a global climate change conference. And yet, for two weeks in December, more than 20,000 delegates from nearly 200 nations converged in the Silesian capital of Katowice, Poland, to attend the 24th Conference of the Parties (COP24).

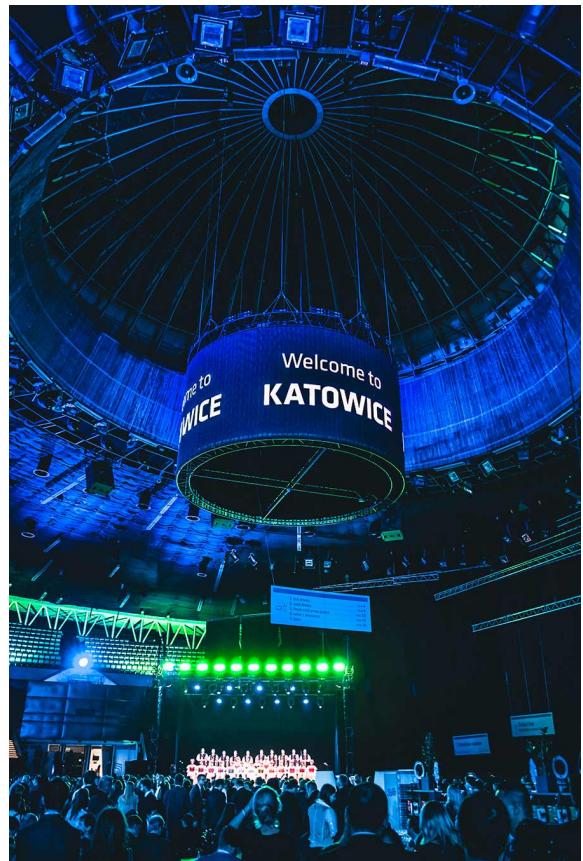
The conference, held from Dec. 3-14, 2018, was the latest in a series of meetings led by the United Nations Framework Convention on Climate Change (UNFCCC) to tackle the global issue of climate change.

More than twenty students and researchers from Scripps Institution of Oceanography and the School of Global Policy and Strategy (GPS) at the University of California San Diego attended the climate talks, where they gained a nuanced understanding of the intricacies and challenges of climate policy. The team was part of UC Revelle, the observer organization representing the University of California.

“It was so interesting to see how this kind of global policy is created,” said Kat Montgomery, a Master of Advanced Studies student in the Marine Biodiversity and Conservation program at Scripps.

A first-time attendee of the UN talks, Montgomery described her experience in Poland as “illuminating” and said she gained a better understanding of the role of non-governmental and research organizations in the UNFCCC process.

“I think the UC’s biggest accomplishment at COP24 was being able to give so many current and future scientists a chance to attend a conference like this, where they could learn about and potentially influence global policy,” said Montgomery.



Traditional Polish singers and musicians perform at a COP24 welcome reception in the Spodek arena. Photo: Jack Pan



In Katowice, she and other UC delegates observed some of the complex negotiations in which nations hammered out the details of a common rulebook to implement the landmark 2015 Paris Agreement. The rulebook defines how nations will enact their climate pledges to keep global temperatures well below an increase of 2°C above pre-industrial levels. It also provides a universal framework for measuring and reporting emissions with greater transparency and supports climate financing to poorer nations, among other things.

University of California delegates served as panelists for a discussion at the UN's Sustainable Development Goals Pavilion on the topic of investing in education for the future of sustainable energy. Scripps alumna Megan Bettilyon with Global Good (far left) moderated the discussion with participants (pictured left to right) including Scripps Ph.D. students Osinachi Ajoku and Tashiana Osborne, Yale student Holden Leslie-Bole, and Scripps postdoctoral scholar and alumnus Yassir Eddebbbar.

“The negotiations were difficult, as many countries were trying to pull in different directions. However, the world came to a midpoint to implement the Paris Agreement,” said Alfredo Giron, a Scripps Ph.D. student whose research focuses on fishery sustainability in the Gulf of California. “Being part of the

Scripps delegation allowed me to follow up this process very closely and get involved with delegates from different countries and other observer organizations to dig into the details.”

In the UFO-shaped Spodek arena, the UC delegates hosted an exhibit that highlighted the ocean’s reach on global climate. The exhibit allowed Scripps students and UC affiliates to connect with delegates from around the globe and raise awareness about the importance of ocean and climate science being included in global policy decisions.

One meaningful interaction occurred when Tibetan delegate Zamlha Tempa Gyaltzen stopped by the UC exhibit to drop off a hand-signed letter from His Holiness the Dalai Lama—a well-known champion for climate science with deep connections to UC San Diego. In the letter, His Holiness thanked the COP24 delegates for striving to create a “better environment for the world so that future generations will be able to live a healthy, happy life.” He also urged humanity to recognize that climate change affects everyone on Earth and that we must take serious action now.

UC delegates also led six press conferences and participated in other side-events to communicate the latest scientific research on topics ranging from ocean deoxygenation to geoengineering to the value of deep ocean observation networks, and more.

“The conference is an enlightening experience that comes with a sense of worldly connectedness and inspires nations to collectively work toward changes for the good of humankind,” said Scripps Ph.D. student Tashiana Osborne, a two-time attendee of the UN climate talks.

Osborne said she’s still hopeful that nations can work together to address climate change but was concerned to witness “how slow-moving and challenging it can be for responsible political actions to be taken.”



Scripps Oceanography scientists discuss the crucial need for ocean observations in the deep sea during a COP24 press conference. Pictured left to right: Distinguished Professor Lisa Levin, Ph.D. student Garfield Kwan, and Samantha Murray, Executive Director of the MAS program in Marine Biodiversity and Conservation.

At COP24, she and fellow Scripps Ph.D. students Kara Voss and Meredith Fish held a press conference to discuss the science behind atmospheric rivers and extreme weather patterns linked to climate change.

“It is very important for the world to see students, researchers, and top STEM programs like Scripps invested in global climate change issues,” said Osborne. “It's imperative to demonstrate that there are those of us in the United States who remain dedicated to learning about and helping address parts of the climate crisis.”



The COP24 entrance sign provided a perfect place for Scripps Oceanography delegates to strike a pose. Pictured left to right: Ph.D. student Matt Costa, postdoctoral scholar Kasia Kenitz, alumna Megan Bettilyon, Ph.D. student Osinachi Ajoku, staff member Brittany Hook, and postdoctoral scholar Yassir Eddebbbar.

COP24 marked the third UN-led climate talk attended by Osinachi Ajoku, a Scripps Ph.D. student studying climate science. His research focuses on how aerosol particles produced from biomass burning affect climate patterns in Africa.

Ajoku said that attending three conference sessions has given him a holistic outlook on how countries address climate change by factors such as culture, location, and economic standing.

“It has also allowed me a unique perspective of how countries in Africa are progressing in

climate change relative to the rest of the world since that region is the focus of my research,” said Ajoku, a Los Angeles native with roots in Nigeria—which he says makes his African research feel more personal.

While at COP24, Ajoku served as a panelist for a discussion at the United Nations Sustainable Development Goals Pavilion on the topic of investing in education for the future of sustainable energy. The panel was moderated by Scripps alumna Megan Bettilyon (MAS '10) of philanthropic investment fund Global Good and also included Scripps postdoctoral scholar Yassir Eddebbbar, Osborne, and Yale student Holden Leslie-Bole as panelists.

Each panelist underscored the importance of educating the youth about climate change and discussed the increasingly vital role of science communication to inform and inspire communities to tackle the massive problem of climate change on a local level.

“When something's outside of your control, you have to focus on what you can control,” said Ajoku, responding to an audience member's question about how to garner support in his home country of Mozambique. “I'm a big believer in ground works, so I think the best thing to do is work on a local level, to bring the community together and teach them about climate change. I think this would actually go a long way.”

The University of California has been sending delegations to COP for the past 17 years, and the continued effort has already made noticeable waves. Giron noted that this year, many members of the UC delegation had talks with other delegates who have read [a scientific paper on ocean-related Nationally Determined Contributions](#) that was written by Scripps' Natalya Gallo and Lisa Levin, and GPS' David Victor—all former participants in the climate conference and members of the UC delegation.

“Every year, Scripps gains more presence among delegations and brings the spotlight to the oceans,” said Giron. “COP24 was an opportunity for me to dig deeper into learning how negotiations work, get to know more delegates, and confirm that I want to be part of such processes from a scientific perspective in the near future.”

Montgomery echoed Giron's sentiments on the importance of having UC delegates involved in the annual conference.

“I got to know people on this trip whose research has some amazing real-world applications,” she said. “The more chances they have to share it with policymakers, the better off we'll all be.”

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UC delegates learn how global climate policy is shaped by attending daily meetings and negotiations. Left to right: Scripps postdoctoral scholar Bonnie Ludka and Ph.D. student Margot White, UC Merced student Julia Burmistrova, Scripps Ph.D. student Alfredo Giron and faculty member Samantha Murray.